

SEQUENCE LISTING

<110> Bjornsdottir, Soley
Kong, Augustine
Thorgeirsson, Thorgeir E.

<120> Inversion on Chromosome 8P23 is a Risk Factor for Anxiety Disorders, Depression and Bipolar Disorders

<130> 2345.2058-003

<140> 10/571,865
<141> 2004-09-17

<150> PCT/US2004/030699
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<150> 60/504,307
<151> 2003-09-19

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tattatgnaa atatatacat aagaaggatg acattaacag gcattttcta gtaaaattaag 180
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caaatttctc tcttagtctt ctcagcctcc ttaccaggca gcaagagctg agagaacttg 180
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atgcctgcaa atttcataaa wcagtgttt gtggtagta gttggttttt aaaaggttat 540
gctaaaattt cagggtgata ctttcttagg tagtcccttt ttgcaggtt ctttcagagg 600
taaaacctca gacccaaca cggtccaccc ctgcattttt tttttttttt ttttgacatg 660
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tcaggacacc acgctcggtt aattttttt atttttttt agagacccggg tttcaccgtg 840
ttagccagga tggctctcgat cttctaacct cgtgatccgt ccgcctccggc cttccctaagt 900

gctgggattt caggcgttag ccaccgcgcc cggccctttt gtttgcttgt tttttgagat 960
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<210> 63
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<213> Homo sapiens

<400> 63
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<213> Homo sapiens

<400> 64
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<210> 65
<211> 259
<212> DNA
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<400> 65
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acaatacaca ttgcgtgttc tcttcaatgt gcctgtgttc tggaaagctgt gtgtctccag 240
ctaaggagag cagaggctg 259

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<212> DNA
<213> Homo sapiens

<400> 66
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<210> 67
<211> 20
<212> DNA
<213> Homo sapiens

<400> 67
gcagtaggca catggcaaat 20

<210> 68
<211> 168
<212> DNA
<213> Homo sapiens

<400> 68
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<213> Homo sapiens

<400> 69
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<210> 70
<211> 24
<212> DNA
<213> Homo sapiens

<400> 70
cctaagagag tgctatgtgc tccc 24
<210> 71
<211> 162
<212> DNA
<213> Homo sapiens

<400> 71
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ccaaagtact aaaaaatgg gagcacatag cactcttta gg 162

<210> 72
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<212> DNA
<213> Homo sapiens

<400> 72
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<211> 20
<212> DNA
<213> Homo sapiens

<400> 73
accacggtaa ccctcaatta 20
<210> 74
<211> 253
<212> DNA
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<400> 74
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gtgtgtgtat gaagtaggt ggttaataat ccaattgact tgttaagttt tgggctaata 180
atatgcagag ttatcagcaa taggaaagac tgaagacttt gctccttta gagtaattga 240
gggtcaccgt ggt 253

<210> 75
<211> 23
<212> DNA
<213> Homo sapiens

<400> 75
cttcagattg gaaagtcagg aga 23
<210> 76
<211> 22
<212> DNA
<213> Homo sapiens

<400> 76
aaagctctca gcaaggactt ta 22

<210> 77
<211> 240
<212> DNA
<213> Homo sapiens

<400> 77
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tattatgaat gtttttatat atatatataat atatataat atatataat atatataat 180
gttagacagaaa cttaacattt atgtttttt gttttttt aagtccttgc tgagagctt 240

<210> 78
<211> 20
<212> DNA
<213> Homo sapiens

<400> 78
gatcttggct ggcagaagaa 20

<210> 79
<211> 21
<212> DNA
<213> Homo sapiens

<400> 79
gctccgagaaa gaacatatgg a 21

<210> 80
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 241
<223> n = A,T,C or G

<400> 80
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gaaaggcata tacaaaaggaa tggcagtaag aaagaacaaa tcacgttcaa gaagctggaa 180
ggagttggcc gtggctgagc gttgggtgag atgacagtgg agaggtgaag aggccgacag 240
ngggggcagg gccagaagca gagagggttc catatgttct tctcggagc 289

<210> 81
<211> 20
<212> DNA
<213> Homo sapiens

<400> 81
tgcataatgtc tggcctgtct 20

<210> 82
<211> 20
<212> DNA
<213> Homo sapiens

<400> 82

tttcttcctg gcttccttg	20
<210> 83	
<211> 350	
<212> DNA	
<213> Homo sapiens	
<400> 83	
tgcatatgtc tggcctgtct cctggcacct ctgcttcctc ttcatgaagc acccaggtaa 60	
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aggtggagaaa caaagggaat gagggAACAT tgagaaattt ctcttcattt tgaccagcta 180	
ggcaaattt tccttggtct tctaaccagg cagaagttat tcattgcgaa aacacacaca 240	
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<213> Homo sapiens	
<400> 84	
gcactcacag ctttgcaagt a	21
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<400> 85	
tccctgagtg gagaatctgg	20
<210> 86	
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<212> DNA	
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gcactcacag ctttgcaagt attgctgctc agtggaaatg taagtccat acatgtgtac 60	
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agattctcca ctcaggaa 138	
<210> 87	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 87	
agatcagca tggaatttgg	20
<210> 88	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 88	
cccatccgta aatgttgc	18
<210> 89	
<211> 383	
<212> DNA	
<213> Homo sapiens	

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<220>
<221> misc_feature
<222> 303
<223> n = A,T,C or G

<400> 89
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gcactgctgc aacctcagtt cactgcaatc tcagccttcc gggctcaagc tattctccc 180
cctcagcctc ctgaatagca gggctacag gtatgcacca ccacacccgg ctaattttt 240
gtagtttag tagaggcaga gtttgccac attgcccagg ctggtcttga actcctgagc 300
tcncaattgc ctcagcctcc caaagtgcgtg ggattacagg tatgagccac tgtacctggc 360
ctgatgcaac atttacggat ggg 383

<210> 90
<211> 21
<212> DNA
<213> Homo sapiens

<400> 90
tcctgagtcc aggctatttc a 21

<210> 91
<211> 21
<212> DNA
<213> Homo sapiens

<400> 91
gcctccagag tacatggaca g 21

<210> 92
<211> 303
<212> DNA
<213> Homo sapiens

<400> 92
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aaataaatga ttataaaaaga aaaaattaag aaaaaagtga aagttatcta tatttctacc 120
atcagagaca actgcgttta acagcctgga tatattctt caggctttt ctattctctt 180
ttacacacac acacacacac acacacgtgt gtgcacatgc acttaataag acctaaaata 240
actgcatttt gttaaagtta catgttgaag gaaaaaaagtc tactgtccat gtactctgg 300
ggc 303

<210> 93
<211> 1001
<212> DNA
<213> Homo sapiens

<400> 93
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tggatgatgtt gggttatgca gctgtttgt gcagtagttt tggggagaca cacacctgac 180
ttaagctatgt tgaatttggta tatgaaggta caagtgttaat atatgaacca aaggatttt 240
cttaacgtaa cgatggaact caagcctgaa ctatTTTTT tcattaaacaa cctggcagtt 300
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catTTGCTTC CGCTGTTGCC ggatgggtttt taaaggaaat tgatagagtt tttaaagtga 420
ggactgtatt gtttacttta tttgttttt taaagttagga aggaacacag tcgcccgtct 480
atcagcctctt ggtttttgtt sccagtggcg ctaagagtca actcttctgc ctgacagtgc 540
ctgctcctac cgtgcctgtt ctgagatagc tcctcctggc ttcaggccct ttatggctga 600
aacattcaattt atatatataa aatataaaaa ataatttata atataactta atataataat 660
atataataac ttttttggaa cagagtcttgc ctctgtcgcc caggctggag tgcagtggca 720
tgatctcgcc tcactgcacc ctccgtctcc cgattcaag cgattctcca tacctcagcc 780

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tcttgagtag ctgggattac aggcccag cagggttcc ccatgttgc caggctggc 840
 ttgaactcct gacccagga gatccacctg ccttgcctc ccagagtgc gggattacag 900
 gcgtgagccc ctctccccgg ccaactttgt attttgctc aaagtttgc tctgtacattt 960
 tgaatcattt ttatccttt tccaatttcc caactaacca a 1001

<210> 94
<211> 1001
<212> DNA
<213> Homo sapiens

<400> 94
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 ttaatattaa tgaatgtcag taaatggaaag ctatgtttt accttcttagc acaaacatct 180
 ttagaaattt tattacgact gtgtatgtgt gtccagtgcc tgacttcca agcagttatt 240
 agaggagatc tgagtttta gcttctgcat tatgattcat gttgaatatt tatggaagag 300
 aagtgttct acaaatatgt aaaaatattg gtgagtgaaa gaaatgctc ccagtatgac 360
 agaagaaaaat atccctaaaga gatccacagt tatctgcagt ttccccaaagg ttgtgtttac 420
 ataaaaaaaga cattgttttta tgttcttagca tcaagagatg attttacgt ataacaagtt 480
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 ttctcccatg ggtaccactt tcctctctt tcctaataacc aagatatgga gactcattt 660
 tgcctgtggag tgtatgtcg ggaaatgaat gcttgcttat tacctcttc cacaggacct 720
 ttcatgacca tacgtcgatg tctgccgcct cagtataaat aggcacattc agaaatgtgt 780
 tctcttagtga agggcatgtt ggcttgggg aaagcacagg gacttcacgt ctggactgcg 840
 agtcagagct gtgcgtcatg tgcttactgg ctgtgtgacc ttggataaat ttgcctcagt 900
 tttctcattt gtaaaacaga cagtcgctat ttctggaaat agatgagata ataaggaaag 960
 aacctagaat ggtacctggc tcctgccagt tgcacagaat g 1001

<210> 95
<211> 22
<212> DNA
<213> Homo sapiens

<400> 95
 tggcggttgt tattaatacg tg 22

<210> 96
<211> 22
<212> DNA
<213> Homo sapiens

<400> 96
 tccattctca ttctcattct ca 22

<210> 97
<211> 299
<212> DNA
<213> Homo sapiens

<400> 97
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 ggcttctaac ctcatatttc acacatagca ggtactcagt aaatacttaa taaatcaatg 120
 aatgcaagta atgactatgt atatactagt ggagaaggaa ggaggggagg gaaaggagag 180
 gagaggcgaag gagagggtggg ccaggcagag gagagaagag agggagggag agggagagag 240
 agagggagag ggagaggagag agggagagag agatgagaat gagaatgga 299

<210> 98
<211> 1001
<212> DNA
<213> Homo sapiens

<400> 98
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acaagaacag cggtcctgta actcttcagg gaaggggcac cacatatctg tcctgtcacc 120
atggcaaaaggc tggaaaggc tgcagagcta cccagcatgc tgctgggtt gttgtaaacca 180
agcagagggc aagattctcg ccatgagaat tgatgtacat gtctagcatg tgaagcatcc 240
taagggctga ggtgggttcc taaaacctgt ggaggaaaat gctcagtgc agaagccaaa 300
gaaaaaggca ccaggctcag cgggagcacc cgctggaga agcatactt gtgaggatca 360
gcagaaaaggc gctgagtgtg gaagctgtcc ccaagtcatg gcacaaaagt attcaaaaga 420
aaggatttct ggattgtttt taaaaaaaaca aaactgttat gtaaatgatg aattgtgctc 480
tgggtctga ttaggaatgt ragtggatcc agagtgatc ggggctgagg cagtggaaatg 540
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tggcatagta ctccatggtg tatatgtacc acattttctt tttacattct gtcattggc 960
attaggttga ttctacatct ttgctattgt gaatagtgtc g 1001

<210> 99
<211> 21
<212> DNA
<213> Homo sapiens

<400> 99
tcaaaggaa gtgtcttggt g 21

<210> 100
<211> 21
<212> DNA
<213> Homo sapiens

<400> 100
ccctccagag ttcacagaat g 21

<210> 101
<211> 137
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 102
<223> n = A,T,C or G

<400> 101
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cgagtcccggtgtggcgat ttctccctga atcttgactg anaaactact gaagccatt 120
ctgtgaactctggagg 137

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<211> 1001
<212> DNA
<213> Homo sapiens

<400> 102
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taaagttta aattgaagga aaaaaatatt caaacttaca tcatgactta agcacctaag 180
agacttaaaag aacatatcaa aattacaact gtgtcactga atcaaatttta cattttgac 240
acaatcatta caaaatcatt acttggtaag aatttccaa tagtcctact ggattgtttt 300
tattnagaat tacctttaaga ttctgtcatt tctactcaca attttaatct gtcattactc 360

atgaatatct gtgtctatga gatTTTTAT tatgagattt tagTTCCCT taagatttgg 420
 gttctcatat gaaatctca ggaagaacct taaagaaaagt tcaaatttc ataaaggccc 480
 ttccaaaca cattgacact scaaattttg acctgactgg taaagatctg tgattgtat 540
 tggtaaaatg tgattctca aaaataccta agaggccgac cactacatct tcgcactca 600
 taaaaggcgag tttccagat ctgacatgtc ctatgggtc actacataaa ttggcttaggg 660
 caagttctac taactagtac actccattct cttgctact agcacactcc tttaactag 720
 aatgccccac tctccacctc tgcctactaa gggtaccact gaataacaaa ccctccaaca 780
 acagatgggg taggaagagc agtctgtctt gtcagagtgg aaaccaacag ggaggctggg 840
 ctcccattag aacatgtca gttaccgcat gttccttcag tgtcttatcc aaatgctccc 900
 tctcttccag ctcttcccc tgcttttaga cttcactctg aacacagcca cgtacacaac 960
 aatttccagg gcagcctcca cccctggat cctagaaagt t 1001

<210> 103
<211> 1001
<212> DNA
<213> Homo sapiens

<400> 103
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 ttatattgtc gatattcata atgatcacca gattattgaa atttatgagt aattttgtcta 180
 taaaataagcc tttttctt gttaaacac acacacacac attttcacac tcacaccc 240
 aaagccacat aatagaatgt ttagcttaaa cctgcagccg ctagttgaaa ttgtgttca 300
 tgagtttta tcctcctaac aacctgtgtc ctaagtccaa ttccctcttca gaaatgtgga 360
 cattgaccat attccagtcc ctgagacgct gttcagccaa cacgtggcac cccagacc 420
 tgcccacctg catcctggtc attcatccctc ctcctcatgg ggtcatttct tgatccctat 480
 taagcattaa aaggggatta matatctctc tacttgccg taatgtttt cttgggttgg 540
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 caggacaggc tagctactaa aatggcctgc cacggaccc ttctgcctgg tgctctgcac 660
 tctggtgctc tctgggcca tcgctgttag tcggtgtca gcacagaaat attttattca 720
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 taaatattta ttatattca ctgcagccaa gcaatttact t 1001

<210> 104
<211> 20
<212> DNA
<213> Homo sapiens

<400> 104
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<210> 105
<211> 20
<212> DNA
<213> Homo sapiens

<400> 105
 gcatcttgca tgggttattt 20

<210> 106
<211> 170
<212> DNA
<213> Homo sapiens

<400> 106
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 ttcacattac acacacacac acacacacac acacacacac tctcaccctt ctctttgctg 120
 gggaaaggtt tgggttgcagaa gttaccatttca caatacacca tgcaagatgc 170

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<210> 107
<211> 20
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10
<223> n = A,T,C or G

<400> 107
aatcacctan actactgcca                                20

<210> 108
<211> 23
<212> DNA
<213> Homo sapiens

<400> 108
atctgatggg gagttatgta ttc                                23

<210> 109
<211> 241
<212> DNA
<213> Homo sapiens

<400> 109
aatcacctat actactgcca cataaggcact atcaataaaat tttatcaatc tcttcctggg 60
tgcctaccag atgtgtgcat gcacgcgtgc acacacacac acacacacac acacaaattt 120
cttccactgc attcattaca gcatgctttt ctctcttacc actatattgg gaataacttcc 180
ccatgtcaact aaaactttt aaaaacacca tttataatga atacataact ccccatcaga 240
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<210> 110
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<212> DNA
<213> Homo sapiens

<400> 110
gccattcgtg tggtctgata                                20

<210> 111
<211> 20
<212> DNA
<213> Homo sapiens

<400> 111
aaatgtttct gctgccatcc                                20

<210> 112
<211> 268
<212> DNA
<213> Homo sapiens

<400> 112
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gggaggaaaa aaggccccag cgcctactgc ctgctttct gcctgcgtt atatcatctc 120
ttatcttacc aactaacata taggggtgtg tgtgtgtgtg tgtattttatg tgtgtgtgtg 180
tgtgtgtgtg tgtgtctggg tatatataca cacacattt tattcgtaa ttcccggtgg 240
aaagaaaaggg atggcagcag aaacattt                                268

<210> 113

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<211> 21
<212> DNA
<213> Homo sapiens

<400> 113
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<210> 114
<211> 20
<212> DNA
<213> Homo sapiens

<400> 114
tctcctccca gcagtcacat 20

<210> 115
<211> 147
<212> DNA
<213> Homo sapiens

<400> 115
ccatggccta tgacctattc aggctctgtg ttgtgtgtg ttgtgtgtta gtgtgttagt 60
tgtaggaaa gatacacggt gatatgtg gagctgggc tggggatatac aagcctattt 120
actccccatg tgactgctgg gaggaga 147

<210> 116
<211> 1001
<212> DNA
<213> Homo sapiens

<400> 116
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gtctgcctg ggaggccatc cttgtgccta ggaggacagg gaagagggtg gatctcagac 180
acaggcaggc tggggagtct gcacagggtt ggcataaaaa catggacgcc tccagtacgc 240
agcacacggc agctcaggcc cgggagcgg gcccgtctca gcaggcggtg tcagccgcgg 300
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ccaagtaagc ctgtgaatcc cactggcggt gtgaacccgg agcccttggg atccgatttt 420
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ccgaacttgc cttggaccag raatgtcagg ccctcaccgt gccttttct cttctccaaa 540
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ccagaatatt ccatttccac agccacctgg catcccaaag cttccctca gtgggcagcc 660
tcttcacagg caaatgttag cgatggttca agtcacacgg ccagcacata ctccatttc 720
aaggaggtca ttgctaactc taaatctacc cctgttagtt agccaaacccc acgtgctcat 780
tcttagagag gttctgttcc ctgaaaacag tctggagcca aatgctgtgt gagctggggc 840
ccggtcatgg aaacagaaaa cttccattcc gtcaagctgg atggattcta cagaaggaat 900
tcggtggtta cagaatcggtt agcaggggctg ttgcgtgaa ggtcaggaa aagcacccca 960
agatttcagg ataccaagaa gttactgaaa ttgccaaaag t 1001

<210> 117
<211> 20
<212> DNA
<213> Homo sapiens

<400> 117
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<210> 118
<211> 20
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<213> Homo sapiens

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<400> 118		
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agtccatgtc tcattctgag gctcagtttc tttgtgtgtaa acacatgtc aatcatacc 180		
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aaccaagaaa ggacctccca g 141		
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gctgtgcccc gaaacctaaa		20
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<213> Homo sapiens

<400> 125

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 gctattctgt ttgttttgt tttgtttgt ttttcctac cttttccaa tcctcacacc 180
 ttctgatcaa cagccccagt agggtttaaa ggtcctagag ctacatggga tttaggtttc 240
 tggcacagc 250

<210> 126

<211> 20

<212> DNA

<213> Homo sapiens

<400> 126

ttgcatggag atgaacaacc

20

<210> 127

<211> 21

<212> DNA

<213> Homo sapiens

<400> 127

tccactcaga gaaagcaagg a

21

<210> 128

<211> 396

<212> DNA

<213> Homo sapiens

<400> 128

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 gtacaggcgg gtatcatag ctcacttgc gcctcaaact cctgggctca agcaatcctc 180
 ccacccatc ctcctgatg gctgggtcta cagggtcaga gcaccgcgcg tacctaattc 240
 tttaactttt atttttgtt gagacagggtt ctccccatgt tgcccaggct ggtctaaac 300
 tcctgggcac aagtgtatccg ctcgcctcag cctctcaaag tgctgggatt tcaggcaaga 360
 gccaccgggc ctggttcctt gtttctctg agtgga 396

<210> 129

<211> 20

<212> DNA

<213> Homo sapiens

<400> 129

tgctgaatgt cagggtttga

20

<210> 130

<211> 20

<212> DNA

<213> Homo sapiens

<400> 130

ccacccttagc aggtctctgt

20

<210> 131

<211> 361

<212> DNA

<213> Homo sapiens

<400> 131

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taaggaactc tggctcacac aatagagttc caacaaaacc ctaaacactc catttgctgg 120
 gggAACCTCA ttgaatccag ctctcattgt ttctttata ggctgaatcc tgtatttaca 180
 gtgagagggg tgggtgtggc tgggtgtca cgtgtgtgt tggtgtgtg tggtgttgc 240
 cccatgcaca tggggttt acaagatatg aagcctggct tgtcacccca caagttctcc 300
 acttgaactt gagcatagat cagggtgccca tgattccccca gacagagacc tgctagggtg 360
 g
 <210> 132
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 <212> DNA
 <213> Homo sapiens
 <400> 132
 ctgaagagca aatggccct 19
 <210> 133
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 <212> DNA
 <213> Homo sapiens
 <400> 133
 taagatcaca tggccccct 19
 <210> 134
 <211> 335
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> 171
 <223> n = A,T,C or G
 <400> 134
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 cacacacaca cacacacaca cacacacaca cacaaaaatc tctaaagagc aatgagcata 120
 gcagcctgga tgggtgtcat ccaaggataa gtctccagac aaatagcaca ncagggggcc 180
 atgtatctt agttcacgaa gacattcaat aaagacccaa caaaacccac gcaacagtct 240
 atgtctctgg cccctgca gggacattgt cttagcacacg gaggcagggtg gggcatggcc 300
 acagtggccc ctactgccct gcacttccca cagct 335
 <210> 135
 <211> 1001
 <212> DNA
 <213> Homo sapiens
 <400> 135
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 gagaacctgg gcatgtgccc tctgtggaga aagtgacttc agaaaaccgct gaggctctat 120
 tagcctggaa ttctaaactc ggggggacat gaaaaactca agagacgagt catcaggctc 180
 tatattcata agactttct ctgtgtgtgt gtgtgtctt ttcaaaacaa atagcactgc 240
 gcagcatcct tagagactac agccaaatgt ctttcatgtt ttttctctac atttcaagaaa 300
 tctcgggacc atgcttccta tctaattgtgt gaccttgaga gttaaaatca agggaaaaag 360
 gtcaccgaat tggggcaag tttgagttcc cgtcaccacg cacaatctct atatcaaatt 420
 gaggacaaca caccacctgg gcctcagcca ggttgcctg aagcaggccc aggcagccctc 480
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 gcaggaggaa atgaaggcgg cgcacagggc agaacggcag acacaggct gggaaagggtgg 660
 cagggccgga ctccagaacc tcagctgagc gttttcttct cctgtgtccc agggatggtg 720
 tgaagtgtct acaggcatcc gagtgaaccc aaagggagag ttggctggc acacggggag 780
 acgggccaag ggcgcggcggg cgaggccggc acaagcatgg cgctgcgaca ccactgctgg 840
 gagcagggtct gaaaggtgtc ttttgcgtta aggacttca taaggcagtc ccaatccaa 900

gactggctt aatttcacgg ccttagcctc tcagtttctt aagccttctg aggacccct 960
 gatcatgaca attaagtcac tatttacagc catgtgacag a 1001

<210> 136

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 136

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 aagcatcagt gatttcacca ttccacccaa gcttcaccat aaatttggtg tttgttctt 180
 cttaaatttt agcagaattc atgttgttct gaaagggggc tcttcaaatt tgatgtctt 240
 gtgcctcaaa ctagatcatg ttctaaatcatg ttataacaag ttattacaag tgatattttgg 300
 tgcaaaaaaaa ttgaaatcca tgcataatat gacccttcca tgaagtttg gaagacctct 360
 cctatgctta tgcatacact ccccaaactg atcaatccag ttgctattgc ccaaggaaca 420
 gaaggctcat cactccatgg agggttttcc ctgcagcccc tacctaagac cttctcactt 480
 tctctgacag tcctatcatt rgtcgtaaa aggctgccc acttagtcca acacactgga 540
 aatggatgtat tgacaacatg ttatttacc catccccctgg gggaaagtct cagattttgt 600
 gaggttggc cccctgcaat gtgcattttaa ctcagcttcc ttgtgcattgt gtctctgggt 660
 cagaagaatt tgcgtgtat aatgtttttg ttaaagtctt atgcccagtt aatgccaact 720
 cagcgtctc atccccctagg gtcctgtta tcattttct tgccttctct tacagtttct 780
 gtatgttata gaagttcaaa gaagacaaac tctagccaag agcagttgtga agaaaagaag 840
 acgctataatt aatcacagtc cagggatgcc ttctggcttcc ctggcagcaa ttccggcctg 900
 agattccttc tctgtgcata cttcctgtca acattgtgtg atgtcaagct gtggccgtca 960
 caaaagtact gtgaacacacct gtaaatccca actatcaaaa a 1001

<210> 137

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 137

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 tgatcggtt caaaaccagt ccgtagggt gtggaaacttt atcgtaaat tcgactttga 180
 tatgtgttta aatatatttt ctaagttatc cacaacccaa aacaggaccc ctagaggtt 240
 atctagagga atcccttcacg ttacagacag agccacttgtt taagggtcta gagtcacaca 300
 ggaggttact gcagaatcac tactggaaacc ctgtgcttct tctgcaggga ttccgatatt 360
 ttgggttggat ttgcattttt acgtcaatgt atgttctcca actctgtct tacatattga 420
 aaggcaggca gctatttttta aacaccctgc ctattagctt tcggaacata ataataatgg 480
 caagcaccct ttattgttcc rccgagctgc agacaccctt ctaggggttg aacagagctc 540
 agtaaaagata gcagcctcag gtctgtgtgt tgctttgagc cacgagctgg tctgcaggca 600
 gcagccatgg gccgtgcctg tggtgtatg tttttaaaca ttggcgaata caggaattac 660
 atggactagg tttagaaaaac aaacagtaac gtacaaaaag gaaggttga tatggactgc 720
 aaggacataa agcaggtgca catgcgtgca ctaccagaat agctacacgg tggaaaggaa 780
 ttccagaacc acgtgagaaa gagttgttag gacaatgcag tcgtgaaata ccatgtttcc 840
 aacccttatca ctctattttta aaatagataa taattataat ttttattaaat atcaaacaaa 900
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<210> 138

<211> 21

<212> DNA

<213> Homo sapiens

<400> 138

ccagacattt cacacactgg a

<210> 139

<211> 20

<212> DNA

<213> Homo sapiens

<400> 139
tttgcagaa ctagcggtgt 20

<210> 140
<211> 140
<212> DNA
<213> Homo sapiens

<400> 140
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acacacacac atgcttagcat gaaacatctg aagtacacag ccatttttg aaaggacccc 120
acaccgcttag ttctggcaaa 140

<210> 141
<211> 20
<212> DNA
<213> Homo sapiens

<400> 141
aaatcgcagc tacacacac 20

<210> 142
<211> 20
<212> DNA
<213> Homo sapiens

<400> 142
tttctgcagg ttttgcaagt 20

<210> 143
<211> 259
<212> DNA
<213> Homo sapiens

<400> 143
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aaagactaac agtatttact taaaaatatt gtgtgtgtt 120
atatatatat atatatatat atatacttat tatatatctt ttttgtgatt ttttttctt 180
tcctttttt ttgtgcccaa gtagagatac gatgcgattt aaacgatgcc ctagaacaga 240
aatattctt aaaggacaaa tactttgaaa aataaaaaaaa aatttaatc gttgaacata 259
cttgcacac ctgcagaaa

<210> 144
<211> 20
<212> DNA
<213> Homo sapiens

<400> 144
ggtaaaagac agaagcacca 20

<210> 145
<211> 20
<212> DNA
<213> Homo sapiens

<400> 145
tggggaaag ccttaaattt 20

<210> 146
<211> 185
<212> DNA

<213> Homo sapiens

<400> 146
ggtaaaagac agaagcacca aacagtctt gaaatgggtc agttattaca attttgactt 60
tttatata ttttatata tatatatata tattcttagtt ttccctttg ttttatatttt 120
ttttttaaaa aagcacaaat gaaaaatgaa gaattcttc cagatcaatt taaggcttcc 180
cacca 185

<210> 147
<211> 23
<212> DNA
<213> Homo sapiens

<400> 147
ataaagaggg tgtgtatgtg tgc 23

<210> 148
<211> 27
<212> DNA
<213> Homo sapiens

<400> 148
ctcatcttct ctctacagat gtactcg 27

<210> 149
<211> 210
<212> DNA
<213> Homo sapiens

<400> 149
ataaagaggg tgtgtatgtg tgcatatata tagagagaga ggcgagtata tatacatata 60
tatatataga gagagaaaaga gatagggtgt gtgtatagat agagagaaag agggtgtgt 120
tttttatata taaagagagg gcgagtataat ctagatgtat agagtgtata tatctataga 180
ggcgagtagc atctgttagag agaagatgag 210

<210> 150
<211> 20
<212> DNA
<213> Homo sapiens

<400> 150
gcaggacagg acctgagaac 20

<210> 151
<211> 20
<212> DNA
<213> Homo sapiens

<400> 151
ccacatcgct attggaggat 20

<210> 152
<211> 399
<212> DNA
<213> Homo sapiens

<400> 152
gcaggacagg acctgagaac cagatacgcc tgcaggtgcc tgcgcctctg cgccccccgg 60
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agggtgtctgc tatgtgccaa acgatggtca caggagggtg agaaagacag tctccacgtt 180
caagagtaca aagtccgtga tccaggaaga caatgaggca gccactgtgt ctcatatctg 240
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ctgcgcgtgc tctctctc tctctctc tctgtctc tctctctc agagcaggct 360
 acctaggatt ttacttgcaa tcctccaata gcgatgtgg 399

<210> 153
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 153
 tctaagattc gccagttcc 20

<210> 154
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 154
 attcttagggc ttgcaggtca 20

<210> 155
 <211> 278
 <212> DNA
 <213> Homo sapiens

<400> 155
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 ataaggagaa gaaagagaag gagtggctac acacacacac acacatacac acacacacac 180
 acctcttagt tgcattttg aacctaatttgc ttttaacacc agctgtcaca tctgcagaat 240
 tctcttctct ggtacttagtgc acctgcaagc cctagaat 278

<210> 156
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 156
 cccaaagtca tgaaatgaga 20

<210> 157
 <211> 22
 <212> DNA
 <213> Homo sapiens

<400> 157
 acaacataacc tgtaggagg tg 22

<210> 158
 <211> 386
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 142, 149
 <223> n = A,T,C or G

<400> 158
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 caactgggaa gggcagaggt tggggagggaa caggagtcaa taacccaaag tcatgaaatg 120
 agaaaaggaag taaacacttg gntggagant cacacacaca cacacacaca cacacacaca 180
 cacacacacc ctaacaggtt tgggtctgc aacaaggcaa aaataattca ttaatatctc 240

attnaaactt gaggcgagg gaattcctga accaccttc tggagcaaatt aatggaaatt 300
 gaaaattgtat tgtcatttac ctttgaggaa gacttcggaa tgtccatgt ctgggtata 360
 gggctgcgtg gtgttgtgac gcatgt 386

<210> 159
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<400> 159
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 tttgtcccta agctcaagtcc octaaagata ccagcacatg actgtcaggc ccctgctgg 180
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 agactctgca ttcatatgc rtacacatTTT agtagtagtg tgaccctggg ccagttactg 540
 attctttctg agcttcgggtt tcctcatctg taaaatgggg atgatgatac ttacctaaa 600
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 cgtgggtgca agctatctgg tggctgctcg gatgatgatg atgacgatga caacgatgac 720
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 agccatcttc ctgcgttggc ggagcttggg ccccaactgg ccatgcaggc gccaggagat 840
 caaatcatga atggggctct ttgcacttca ggcaaagtgc aactccagga aagagagaag 900
 attaaggcca aatctctgca cccaaacagg atccaagaag tgggttaatc tgggactcat 960
 cacatctaca taaagggagg aggaaggcccc agggtggctt g 1001

<210> 160
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<400> 160
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 gtcctcgccca gtaacttcac tcagcctgaa ttcttcttcc ttcccacag gctctgactc 180
 caagttctga tcatacaaggtaa gaaaggaaaa cttacaacca aaggagatgt aacaaagaat 240
 agtctctgtc agttcaatgtgg agagagagag agaagcttta atgggcacta gtcagtcaga 300
 ggcttattct gcaagtgttc attaggaatc agtggattt ccactgttcc cctgggtgtca 360
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 cgaggtggga ctggatgcca accagcccgaa caggcagtgg gtggttcacg gttctgttcc 480
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 ccaagggtgc cagttggagg ggagctagca gtcagaccag gctgggttag gctttgcaga 600
 cagagactca ctccttcca ctgccagaag atgctgcgtt cgggtgagga gctgtgaccc 660
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 tggggctcg gggggcatct ctgaagccca gctccactct ttaccatctt gctaagaacc 780
 agaggtctgg aacatctccc aaagtctacg tggggctcaa tatcatgtgc aatcaactttg 840
 caccgggtta cgaatgtggg agcaagaggt ggtcaattttt ggaaggcgtt ggttaagaca 900
 gctggtaaac ctcagctgag ataatatctc tatttcctc tccaaagagg ttggcagctt 960
 caccgggcaaa acagtgccttcc gagaggcctt cataagccac a 1001

<210> 161
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<400> 161
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 agaagggtgct ttcccttaca actaagacag cattcacact taacccttgc agcaacttcc 120
 tacactgaga aacacaacag aatttgtgt tatgattctc atcttctcag aaaaatgtgt 180
 tgcctcttgc atctgcctaa ttggctaat tgaacttagga atcaaagcag tttctgggg 240

ggaaggtagg aagttctgtt tttagtttg ctatgatttg tcccaatcat ttatgctac 300
 aaaagctttt gttggcggtt gcctccgagt cagtgtttt aaaggtggcc gcaaatgtga 360
 ttatggaa ggtgtcgcc ggggcatgca ctttatggc aggtgggcc ggaggaagtg 420
 gtaggagac agtttctca cccatctcct ggagagacct ccatctccct tacccaccct 480
 gcaagtgtac cacgcacatc kgacgaaaaga ggctgtcgct aaaacgcctt gaaaagcata 540
 cacacgtgca cacacacaat gtcacgggt agtatttgca gtacagaatt ctagtactgt 600
 gcacctcagc tacagacatc ccaattttt aaagtgtcca taattttatag caagagatat 660
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 atggaaaga acctaataa caagaattgt aaactgtgg acttccagca agagggagct 780
 gtttatattc atgcagagcg gcctgaaaa agatgccgtg attggataac gtacactgt 840
 cacggctgag aacaaaggaa tctgaaatga caatgaatgg agtatttagca gcagtgcacct 900
 agtgaattttt gttctgttca ttttgtca ctctctaaaa ttattnacaa attatgtcat 960
 ttttatgat aaaaagttgt ctgaattttt gaaaaacaag g 1001

<210> 162
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<400> 162
 ttatttgtga acttcgcagaa aatggaaagg attatgtttt aaagacagtt ggcttgctg 60
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 tagatgcaaa tgcaaaatcc taaaattata gattttagat aaatttaaat tctggtagaa 180
 tcaaggtttt ataacattta aagtgtctga cactaagtgt atataatctt ttaagaaaacg 240
 tcttcttaac agcgcatggt attctgtgac tggtcgta ccatgaatat tcttattggg 300
 ttcttagagtt agttactgac tcttgaagat gggcatctaa tggtccctt gtggaaagtgg 360
 agagcagctc tccactgttt gataacattt aaagccaagg gtgaaccact caagaaacat 420
 ttggtggtta taatattttt ttgttgggtg taagtaccat caataaaaact gaaaaatctc 480
 ttaagtacct gactcctgca rtgataacaac tgcagtgata aaacttttag ctttttacat 540
 caggggtatt aggtatttc tcacagaaat agcctttga ggtgaattc acataacata 600
 caattaacca ttgtaaaatg aacaattcag tggcgtgtaa gatgtatgtt acaatgttga 660
 gcaaccatca cctctgtcta gttgcaaaat gtttcatca ctccaaaaga aactccttta 720
 ttcatcatag cccaaagtgtt gaagtattttt cttgattggg ctcttgatta catggatgca 780
 tctgagtcat tgaattgaag cctaagatgt gcttaatttc actgtgtgtg agtttcaccc 840
 cagttaccaa gagagaacag aacaaaccaa aaatcttaat tctttgtaaa aaaagacttt 900
 ctggctgtt tattaaaggaa gccaggggaa caaggtaaa aggaatcag ttagcagtga 960
 ccaaggcaag agatgatggt ggcttggtg aagatggta c 1001

<210> 163
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<400> 163
 ggatggcattc tgaatcctgg atttcccaga cctcagaacc agaaggaata catttccatt 60
 gtttaagcca cccaggcaat gatatttctg ttataaaagc ccaaactaag atacccacac 120
 agagaacacc tacacacagt gtggttacag gttgcatcat ttcttttct ttttcaataat 180
 ttgcattttc tctaaattttt ctacaatgac ccaccacatg aattctttta aaagaaaaaaa 240
 atggtaataa tgaatagaa tagtagtgtt gacccttaag aggaaaaaaga tggtagaaga 300
 cactatgtt cttacagtag actacaaatg tggtgtaaat ttgttaataa aagatgaata 360
 ctatataatgt tcaccacctc cctctctgtat gttctgtaa ccagagcata tgggttaac 420
 ctgtcttagtccatctccatc atcatgctaa aacatcagc tggcgtgtt 480
 ggagaagagg tgtatgtgtt sagggaaagcg ggagacagga attccagaaa tggtagtactaa 540
 agcagtgttt taatgtttaa ttatttcaag aaaccaatac atatcagagc ataagtgaga 600
 aaaagaaaaac aattataaaa aatacaaagg agtccaggat aatagaaatc ttcttcatt 660
 cacatattct agctagaata gtgagaagaa attctccctc aaacgtggac agtcccttac 720
 atcttcagcc gacacggaaat tcttatctga gaatagaatc tctgctacac taaccttagga 780
 gacggccagg caactgctgc ggtataccca tcacccaggat gttctggaaag aaaaagacag 840
 cagggagaag ttctcttagt aaccagctct tctacaccaa atgaactcag gagacaatga 900
 atggaaacac catgccccatgg tggtagcaat gcaatgtggc gcacaaggcag cggagagtct 960
 gctgaagaag ctactccctt gaaataggaa agaagaaaac c 1001

<210> 164
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 164
 gcacccaga ctggat^{taag} 20

<210> 165
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 165
 agccgagaag acctgtgaag 20

<210> 166
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 166
 gcacccaga ctggat^{taag} accccccgtc aatgac^{cctcg} ttt^{aacccta} gttac^{ccttt} 60
 tc^{aagg}tcca aacata^{gtca} tactgggggt cagg^{gctt}ca catatgaatt tgctgagg^{gg} 120
 gcttgagg^{gg} tg^{caca}attc agtccataaa cgctgtat^{at} atttatttga t^{tg}tagttt^g 180
 ttt^{aaataa} aaagtgtgt^g t^{gt}gtgtgt^g t^{gt}gtgtgt^g t^{gt}gtatcta aagttagg^ctt 240
 cacagg^{tctt} ctcgg^ct 257

<210> 167
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<400> 167
 gccaagaaat gacatgttga tcctcaacta gctt^{gtggac} agagtgtt^{tc} ttttctgg^{tc} 60
 atcc^{ttt}tca gccactgata taaacaaata taattatcca atcaa^{aaaattc} tgaatgat^{tg}ga 120
 gaagttt^{cct} atgc^{agt}cc^t aagcata^{ctg} gtttact^{tt} ccatag^{tt}ca gcaaaaat^{at} 180
 tactggatta ctgggg^cttt aaaatggccc aagctgt^{ag}c ccacagat^{ct} gcaactag^ctc 240
 acagaatg^{cc} acgg^{ttt}gg^t ttg^{ttt}c^tga ctatgat^{cac} agagtaatac taacaaaat^c 300
 ttgctat^{ttt} aaggaattat taat^{ttt}tga attacaatta gaatacaatt agattatt^{cc} 360
 acattaccc^a gtgaattatt attatag^{gt} ccaacatt^{ca} cagtttaat^c caatgaagaa 420
 actgag^cc^tta tataaaaata accaccacca aagcagaaga aaagctac^{gt} gaagaact^ga 480
 actcaat^ct aatgg^{tt}c^ct kcagataact actcc^{ca}att gacc^{ccaa}ata aaccaat^{tt}a 540
 ctgggtcaag agagagcat^g aaggaact^{aa} ggactct^{gtt} agaagt^gagg aaatatgg^{aa} 600
 ttactcgtgc atgt^{tag}cat^g tataacatac agaacaag^{ca} tttctgaaaa t^{tg}tgagc^{agt} 660
 atcaat^{at} tagt^{aa}act^t tagccccaaa aactctact^a ctactg^cttt ttggaaataa 720
 ttaaaaat^{at} ctc^aatac^{ag} tttataaact ttgataa^{agt} caatataaaa gtaataacat 780
 catataaaacc ggtctttgc tcatttgaac tc^ctgcacat^g gggattataa gccataacag 840
 atttctttt tcaaataat^{ct} gaaataacaag gaataat^{ttt} ct^ttaat^{ga} gttgcaat^{at} 900
 accaacc^{at} attgggct^{gg} tttctgt^{gt}at tt^cctctt^{aa} ttgg^{gt}gt^gtag cagcagtaat 960
 cctctaatt^c ttaggat^{gg} caactgact^t ttgaat^{at}t^c 1001

<210> 168
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<400> 168
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 tataaaacaaa tataattatc caatcaa^{aaat} tctgaat^{gt}at gagaagg^{tt}tc ctatgc^cagtc 120
 ctaagg^{cata}c tgg^{ttt}act ttccat^{ag}tt cagcaaaaat attactggat tactgggg^{ct} 180
 ttaaaaat^{gg}gc ccaag^ct^{gt}ta gcccacagat ctgcact^{ag}c tcacagaat^g ccacgg^{ttt}g 240

gtttgtttct	gactatgatc	acagagtaat	actaacaaaa	tcttgctatt	tgaaggaaatt	300
attaatttt	gaattacaat	tagaatacaa	ttagattatt	ccacattacc	cagtgaatta	360
ttattatagg	tgcacaacatt	cacagttaa	tccaaatgaag	aaactgagcc	tatataaaaaa	420
taaccaccac	caaaggcgaaa	gaaaagctac	gtgaagaact	gaactcaatc	ttaatggttc	480
cttcagataa	ctactcccaa	ytgacccaa	taaaccatt	tactgggtca	agagagagca	540
tgaaggaaact	aaggactctg	ttagaagtga	ggaaatatgg	aattactcgt	gcattgttagca	600
tgtataacat	acagaacaag	catttctgaa	aatgtgagca	gtatcaatag	gttggataac	660
tttagccccca	aaaactctac	tactactgt	ttttggaaat	aattaaaaat	atctcaataac	720
agtttataaa	cttgataaa	gtcaataaa	aagaataaac	atcatataaaa	ccgggttttt	780
gctcatttga	actccttgaca	tggggatttt	aagccataac	agatttcttt	tttcaaatat	840
ctgaaataca	agaataatt	ttctttaat	gagttgcaat	ataccaacca	gtattgggct	900
ggtttctgtg	attcctctt	aattgggtgt	agcagcagta	atcccttaat	tctttaggatg	960
gacaactgac	tttgaatat	ctcagtaatg	agatctccat	t		1001

<210> 169
<211> 23
<212> DNA
<213> *Homo sapiens*

<400> 169
qqaaqctqat qaggtqtata tgg

23

<210> 170
<211> 20
<212> DNA
<213> Homo sapiens

<400> 170
qagtctqagg tgggaaatc

20

<210> 171
<211> 242
<212> DNA
<213> *Homo sapiens*

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<400> 171
ggaagctgat gaggtgtata tggatactct gtgcttatctt taagcttttc tgtaaacata 60
aaaaaacctaa aattattttta aaataaaaagg tatgttatgtatg tgatgtatgtatg 120
tgtatgtatg attttagag atgcagtctc tctctgttgc ccaggctgggt gtgcagtggc 180
gtgatcatag ctcactgcag cctcgaattc ctggacccaa gggatgctcc cacctcagac 240
tc 242
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<210> 172
<211> 1001
<212> DNA
<213> *Homo sapiens*

tgaactaata atggcaactg cgtatctcta agtttagaaa tggggtatac aacaattcta 900
 gccaaggagg ggcaacttct agaaattttg cttactctta aaaatgaaca caaagaaggt 960
 accttatctc ttctggcctt tagaatgttg ttgatttagag a 1001

<210> 173
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<400> 173
 cttagcttc aattcaggta gagcagttag gtttgaaagt gcctcaagca gagcccacag 60
 ttctctgatc ctttacaata tcacactctg taattgtgtg gcatagcagc catgcttagga 120
 acgaggtaaa ttacttaggt actcgctaga cttttccctt ttctccaccc ctggggtcca 180
 ggctcttttc ccagcactta ctcagggctg tcattagccc ttctctctca gtttcatcgc 240
 ccctgcattt acgttattct aagtcttctc ccctatgggt tcctgtgggg aaaataaaaag 300
 atccgaaagg gaaaaaagca gaaaagaatg aaataaaagtg aaaattcaag agttcttgc 360
 ttaagtccc tatcttaaaa gatatatggc tttgtactt tcaaaaagcat tacattataa 420
 ggtatgtggc caaaacacaa tcaataaaaca aacacacgca gacagataca actaaataca 480
 cacaacata catgccacaa yagagagggc ctttgattct taggatcccc ctttctttt 540
 ccattccatta attcctaact acactgttct tctctaacc tgtaactatt tctcaatatac 600
 catttgtcac atgtaaaata ttctcaagac cactccttagc cttgtataacc tgagacctgt 660
 cttccatacc aacaccatca cttaattaag aaacaatggc actaaagctt tgcttacaaa 720
 tctgtgaaac aaaggtcatc ccacctgcct accttccac ttcacccctac taataggagg 780
 tttaaaggag atatgtgctt aagtacacca aagaaccaga ggtaccaaca gggttaagat 840
 acgccttcaa tccaagaaaa tcccctgaag cagcatgtca atactgagta acacaaccat 900
 tccttaggct atcacctttt ttttttttt ttttttttt tttgagacag agtgcgtt 960
 tgtcacccag gctggagtgc aatggcacga tcttggctca c 1001

<210> 174
 <211> 21
 <212> DNA
 <213> Homo sapiens

<400> 174
 agccacacag gtcacagatt t

21

<210> 175
 <211> 23
 <212> DNA
 <213> Homo sapiens

<400> 175
 ttctgacatt cttaatgggc ttt

23

<210> 176
 <211> 248
 <212> DNA
 <213> Homo sapiens

<400> 176
 agccacacacg gtcacagatt ttggcttttt aagaagaaaac aagagccctc atgcagaccc 60
 ctggtagtgc ctcaactggc ggagatacta tgtaaaggag cttttaaattt attaaatagc 120
 ctctaaataa atacatattt tatatatata tatacacaca tacacacaca cacacacaca 180
 cacacacaca cacttatattt acatttataa gtaacctaatt ttttaaaagc ccattaaagaa 240
 tgtcagaa 248

<210> 177
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<400> 177

cctgtgatgg gatggcaccc tgcaggac tggcccgc cgtgtccct gagtcctag 60
 gataggctc gaccacctgt gaccagggtt aataagtggg taagaattat ctcacgttgc 120
 attaatctt cttaaataata ggtatggctc acatttattt caacgtttaa tgctagaagt 180
 gtttggctt ttactaaaa gtttgggtt gttttgtga acagaataat gccacagaaa 240
 cttaatctt tttgtatcaa ttagcctatg ggaaaactgg tttccatata ctagttca 300
 cttcaaaatgg cagttctaa gaactcactg atgacagtga agatttactg tatgggtt 360
 tagagtaaat ttctaaatgt acgtacaatt ttccacatt tttaaatatac tatttggta 420
 tctatataattt caacagatga gaatcagtag tcacttttag ggatagttc ctggagatg 480
 gcacccaata aagtctccaa ygatgggaca tgatttgaa agagtaattt agctgtgctc 540
 acaaaccaaat atccaatctt tcctcaacca gatgaacttt tccttaagac ctgaaacact 600
 gatgagtctt gggcacatgg ctacaataact tttcatttag tccctgaagg ccattttac 660
 ctcataatgaaa tatcatctaa agaaaaatta tttaaaactc cagttgtata atttcaagat 720
 agtttagtgtt atttagtatg actcactt cattaaactt cacaactatt tttaaaagct 780
 aattttaataa gttacctgtt tgagctgatc gatggaaaca gggcttggc tatttctgta 840
 ccaccctcaag actaagaatg cttttatata ttccgaggg gactgtcat cagaggcctt 900
 ctgtggctac acatctaaa atacttctt acagaaaaag cttgccaagt cccgaatcaa 960
 aacagaaatc aaagtttaa aggaaatcg tctcttgatc t 1001

<210> 178

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 178

ggtttagttt atctoacgtt gcattaatct ttcttaataa taggtatggc tcacatttt 60
 ttcaacgttt aatgttagaa gtgtttgggt cttaactttaa aagtttgggt gtgtttttgt 120
 gaacagaaat atgccacaga aacttaatct tgtttgtatc aatttagccta tgggaaaact 180
 gtttccata tacgtatgtt cacttcaat tgcagttct aagaactcac tcatgtacatg 240
 gaagatttac tgtatgggtt ttagagtaa atttctaaat gtacgtacaa tttttcacat 300
 tttttaataa tctattttgtt gatctatata ttcaacagat gagaatcagt agtcactttt 360
 agggatagtt tcctgggaga tggcacccaa taaagtctcc aatgtatggg catgattttg 420
 aaagagtaca ttatgtgtc tcacaaacca agatccaatc ttccctcaac cagatgaact 480
 ttcccttaag acctgaaaca ytgtatggtc ttgggcacat ggctacaataa cttttcattt 540
 agtccctgaa ggccattttt acctcaatga aatatcatct aaagaaaaat tattttaaac 600
 tccagttgtt taatttcaag atagtttagt gtattttagt tgactcactc ttcatggaa 660
 ttccacaacta tttttaaaag ctaattttaa tagttacctg tttagctga tcgatggaaa 720
 cagggttgg gctattttctg taccacccctc agactaagaa tgcttttat atttttcgag 780
 gggactgtgc atcagaggcc ttctgtggct acacatctt aaataacttct ttacagaaaa 840
 agcttgccaa gtccccaaatc aaaacagaaaa tcaaagttt aaaggaaat cgtctttgt 900
 actctgcaat caatagcatt tttttatata catacacaca catagacaca ttcatgcccc 960
 cccatccccca tcccacttta atctggaaagg tacctgatct a 1001

<210> 179

<211> 20

<212> DNA

<213> Homo sapiens

<400> 179

tgcatggc acgttggtaaa

20

<210> 180

<211> 19

<212> DNA

<213> Homo sapiens

<400> 180

aggctggc tcctgaaat

19

<210> 181

<211> 116

<212> DNA

<213> Homo sapiens

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<220>
<221> misc_feature
<222> 48
<223> n = A,T,C or G

<400> 181
aatctttcca tcccacagaa tctttccaac attacagaat ctatccantt gcataaggcct 60
gactaggcaa ttgacacctat gaataagtct atagtatcaa atgatgttga agacag      116

<210> 182
<211> 19
<212> DNA
<213> Homo sapiens

<400> 182
cagccccagca acattcact                                19

<210> 183
<211> 20
<212> DNA
<213> Homo sapiens

<400> 183
gtggtagagg gttgccttca                                20

<210> 184
<211> 174
<212> DNA
<213> Homo sapiens

<400> 184
cagccccagca acattcactg cagattttgt agagagctgc atatccaaat tccaccagtc 60
tcaaattcaga aaacaacgct aaaacagagc tgttagaccgc tcaactggat ggtgccatta 120
taaaatgcaa aatgcctttt ccttttact ctcctgaagg caaccctcta ccac      174

<210> 185
<211> 20
<212> DNA
<213> Homo sapiens

<400> 185
gcaaacaaca tggcttagcag                                20

<210> 186
<211> 20
<212> DNA
<213> Homo sapiens

<400> 186
tgtttcttgg caaagtggaa                                20

<210> 187
<211> 403
<212> DNA
<213> Homo sapiens

<400> 187
gcaaacaaca tggcttagcag gtattaaaaac agcagaccat gttcctgcag tatttcaagc 60
aaaaccatct aactggaaa aaaaattttt ttaataaaat ccttcctcag taaatactgc 120
tttgaagta tagctatgtt agaagaaaata acttactaaa attagcatgt cttaataaa 180
gttaacttta ggaaatattt agagatatat tctaattcttg aaaaaagatg taaaaaaaaaa 240
actagacagt aaagtccacag gcactttata tcaatgcaga ggaaaagttaa gatcagaaaa 300

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aaaaaaaaata ctaccctaca tacaactaca aaagctaaat tgacatTTTA aatgtacttt 360
 tcagtttgcC ctaaaatctg gacttccact ttGCCAAGAA aca 403

<210> 188

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 188

tttgaagcca gatagccaaa ataggcaag ctacatggtt acagttgttc ctgatcagat 60
 gaaatgaaca ttttacagt aaaaaaaaaga atgaggggga aaaaaatccc tgaattttct 120
 cattgacttc cctagatttt tgaactcatt tttgtgattc tgtctacttc tccattcaact 180
 aaagtcttct aataatgcca ataactgtct ttagaatgtt aagagtacaa attaggtaat 240
 atttatatgg ctggagggttc tatggcagaa aggtgcgtt gacaacttca atagttactt 300
 tgatactatt gaatactatg gcacctatga gtttgggag tggcaggta gatggggata 360
 ctacattttt ggacacagct tttcatgagt atatatgcc a gtgtgaaatc tctgaagact 420
 ttagaaaaat tactaatgtt gaatttttac tcccatatcat tgggaagagg ggagtgattc 480
 caaaatcaac ttttagaaac magccatata actgtatcca tgtatttcat gctatgattt 540
 aagcctcata ctccctatgg tatgtaaaaac tcatactcat atgttaagcct catactccct 600
 atggtagtaa aacttaaggc cagcaggtaa agattatttc tgcataataga tgggattctg 660
 tttctttgc t gaatttgaat gaataacacc ttacatggca taaatataga gttaggattgc 720
 ccaggatgtga accccaattt cactaaaata gtaacatgaa taatgtgagc aagattacct 780
 cttcaaattct cagtttcac cttgatataa tagaaaataac aacagtgact tttctgaaaa 840
 gttgctggc agagtaaagg tggtaatcct ttcaaggatc tcaatatgat acctgatagg 900
 cagctaagca ctagagagta actgctatta ttattactgt tggatttattt atgtttgcatt 960
 aatactgaca tttttctact taaattctat cgctgagtgt a 1001

<210> 189

<211> 24

<212> DNA

<213> Homo sapiens

<400> 189

aaagttgcat agcttcctca gttt 24

<210> 190

<211> 20

<212> DNA

<213> Homo sapiens

<400> 190

ttaaaccact ggcttcctg 20

<210> 191

<211> 176

<212> DNA

<213> Homo sapiens

<400> 191

aaagttgcat agcttcctca gttttaatgt ttgaaatgtc tttttcttaa tggcaggaat 60
 actgggctta gaagttgtat tagttaggc tcttccgaga aacagaatga gagagagaga 120
 gagagagaga gagagaccta tcactgcagg aaagccagtg gtttaa 176

<210> 192

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 192

tatTTGAGAA agggtgttgt tggatcagtc ggacttcctg tcctgattgc agtagtggtt 60
 ggggtgaatt tccttctagc agcgtggaaa aggggcatgg gaatcaatgc agtggaaaca 120
 gtggttcctg atgtgacgta ggcaaccatt ggacattggg ctttttaca tcctcagatt 180

caagaggcctc ttgaaaatgt ctcatttga tcatacgag ttctgtctgt gaaagcgatg 240
 gcaagtctgg gttaactagt gaactagtct agtcgagtt gcttaagact ctttcttata 300
 atgcattggac atgtaaaaat caggaatttc ttggtgaaaa aatttggttc ctagaaacca 360
 gaacaaccca taatgaaac gcataaaaaa gatttgaaa ttgatgtcct cagtctct 420
 agatacatt caggtgttca agatccacgt atagctagtg gtgaccatat tgacatcatg 480
 gaaataccta ctggccgtg mtggtttaca ccatactctc taaaacaccg cttaggcatt 540
 taccatgttca ttctgttat gactgcttt agtagctgt gctgctattt gctaccacga 600
 aggccgcctc ctcctccgt ggtcggtagg taagtttagg ttcttgatct caccacacaa 660
 aagaatttga gagtgactcc aaaggaagag tagccaaaga agcttattgt aaagcgaaag 720
 taccctctga gaggctgagt gggctgctt aaggagaga cagcaactag tgccctcaga 780
 ggaattcctt ttgcggaaat tgttcgata tattcataaa atactggta ggtcaagtac 840
 gtaaagacag acctgcgggtt gacacatgcg ctcagcatct gcatgctgta acatgcaatg 900
 catgtatcat tagcatataa aatctccgcc taggggtgtg ttttttact attaaaatga 960
 agaaaagggtt actatgagct aaacatttgcg cctagctgca c 1001

<210> 193

<211> 20

<212> DNA

<213> Homo sapiens

<400> 193

ctggaatgga ggaatgcttg

20

<210> 194

<211> 19

<212> DNA

<213> Homo sapiens

<400> 194

tccacaaagc cattggaaa

19

<210> 195

<211> 304

<212> DNA

<213> Homo sapiens

<400> 195

ctggaatgga ggaatgcttg aatatacgca gttccattga ggtaagtatt ttggaaagcaa 60
 aatctaataa aacataattt tatattatga ctcagtgtat ctcttcatt tcttcatttag 120
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 gttcatcgatc atatgagtgt aatggaaactt tcttgacttc cagcagtgatc tgggttact 240
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<211> 153

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212 H-1

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<210> 217

<211> 288

<212> DNA

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<400> 217

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<211> 1001

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 220

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<211> 380

<212> DNA

<213> Homo sapiens

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<400> 224
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<210> 228
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 ccaggtgggg ttcaaagtag ggtgctctca ctg 153

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<400> 233
 cccactcatc catctatcca 20

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 tggataggtg gattgataga tgatggatgg atggatggat ggatggataa atggataaaat 180
 ggatggatgg atggatggat atctggatgg atggataaaat ggatggatgg atggatggat 240
 gaatagatta ttagatggat agatggatga gtggg 275

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<400> 236
 gggtgatgca tagcagacg 19

<210> 237

<211> 268
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cccaaagaaa tgtcacagag aaatagtgac ttgaagtcca aagagaaaa aaaggaggc 180
cgcaggcaca tcatgtatct gtgcaatagt catacgtaag ccggcgtat gtccacacca 240
cgagacccc gtctgtatg catcaccc 268

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<210> 240
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<213> Homo sapiens

<400> 240
gatccttact ccagccaca 20

<210> 241
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tttacctcca gggttcaagg aatcctcaca cctcagccctc ctgagtagct ggaattacta 180
ccatgcccacg ctaacgtcta tatttttgg agttagggtt ttgccatgtt gcccaggctg 240
gtcttgcact catgagctca agtatactc ctgcctcagc ctccaatgt gctgggatta 300

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<400> 242
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<210> 243
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<212> DNA
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<400> 243
tcccacacta cactgatgt aagaa 25

<210> 244
<211> 390
<212> DNA
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aaaaaaaaaaa aaaaaaaaaaa aaaaattagc aaggcatggc agcatgcacc tgcgttcca 240
gatacttggg aggctgaggt gggaggattt cttgagccta ggaggttgag gtcgttgc 300
gccgagatcg cagcaactgtt ctccagcctg gggacagag tgagaccctg totcacaaaa 360
agtttttctt tacatcgtt tagtgtggg 390

<210> 245
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<212> DNA
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atgcatgtat tctcagact ttgggaggct gaggctggag tatcgcttga gcccagggtt 180
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ttagggcaggaa gaatcaactt gaccaaggag gcaggaggat ctttgcgtt agatcgcc 180	
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<211> 25
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<210> 254
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 atgaagctat agcagtaaga ca 142

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 <213> Homo sapiens

<400> 255
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<210> 256
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<400> 256
 tcaaagacca gtgccagaga 20

<210> 257
 <211> 352
 <212> DNA
 <213> Homo sapiens

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 aaagagaaga aaatctttt tggctcatct cttttactc ctacacacac acacacacac 120
 acacacacac acacacacac actctataatg atagattata acagatgtat ctttcaaaag 180
 tagaactgaa atttagacct aaaagataat atacttaat tgtagagag gatatttttc 240
 ctgttgaagg gaacaatatt cctatgtgtt taatacacaa atatatctgt gccagtactt 300
 gtacccccct gagacttcac acactactta tatctctggc actggctttt ga 352

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<400> 258
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<210> 259
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 tcaaagacca gtgccagaga 20

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acacacacac acacacacac actctatatg atagattata acagatgtat ctttcaaaag 180
tagaactgaa atttagacct aaaagataat atactttaat tgttagagag gatattttc 240
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tatTTACATC taaatCTTCa caaccACCCt aagaagtACA tgttattATT cccatCTTAC 180
aatAGAGAAA ataagCTCAg attaattaAT tttcttgGGT cttagAGCAA gtaagtGTATG 240
gtactgtat ctgtactttat attgaatGGT ttgactgtAA aattcttCTT ttctctatAT 300
caaatagtCC cacgagGAAT gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 360
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atgggaagga atttgggact 20

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<400> 274
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<210> 275
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 ttacagaaa aagaaaatgt cagtctgatt atccaggca tgaggataaa gagaagccca 180
 aacaaaggt tccccactc caccacccc aataatactgt ggcactagaa aacgattcca 240
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<400> 277
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 aataaaaggtt tgtatttctt ttttcttaag ctcattcaaa tgccttcct 169

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<400> 280
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<210> 281
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<400> 283
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<210> 284
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<211> 113

<212> DNA

<213> Homo sapiens

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<400> 291

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<222> 106

<223> n = A,T,C or G

<400> 293

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tgttccttagc tccctcccg 138